

List of claims

1. (Currently amended) A system for feeding chilled solvent through ground cannabis plant material to extract cannabinoids therefrom, comprising:

a cooling system comprising:

a heat exchanger; and

a cooling tank for ~~cooling~~ holding the solvent, wherein the solvent is cooled by the heat exchanger;

~~an extraction vessel~~ centrifuge having a cooling jacket and ~~an extraction chamber for holding the ground cannabis plant material, wherein the cooling jacket is mounted around the centrifuge;~~

a first fluid connection between the cooling tank and the cooling jacket for transferring solvent from the cooling tank to the cooling jacket;

a pump in the first fluid connection that transfers solvent from the cooling tank to the cooling jacket;

a second fluid connection between the cooling jacket and the cooling tank for transferring solvent from the cooling jacket to the cooling tank; and

a third fluid connection, ~~between the cooling tank and~~ to the ~~extraction~~ chamber, for transferring solvent from the cooling tank to the ~~extraction~~ chamber;

wherein the third fluid connection comprises either:

a valve located in the first fluid connection between the pump and the cooling jacket and a fluid connection from the valve to the chamber; or

a fluid connection from the cooling tank to a second pump and a fluid connection from the second pump to the chamber.

2-3. (Canceled)

4. (Currently amended) The system of claim ~~[[3]]~~1, wherein:

the third fluid connection comprises the valve located in the first fluid connection between the pump and the cooling jacket and the fluid connection from the valve to the chamber; and

~~comprising a the valve in the first fluid connection between the pump and the cooling tank, which~~ acts to control a rate of solvent flow to the cooling jacket.

5. (Canceled)

6. (Currently amended) The system of claim ~~[[5]]~~4, wherein the valve acts to control a rate of solvent flow to the ~~extraction~~ chamber.

7. (Canceled)

8. (Currently amended) The system of claim 1, wherein the ~~extraction chamber comprises a~~ centrifuge ~~and comprises~~ a mesh bag inside the ~~centrifuge chamber~~, wherein the ground cannabis plant material is held in the mesh bag.

9. (Currently amended) The system of claim 1, comprising an adsorbent media treatment vessel downstream of the ~~extraction~~ chamber and a filtration system downstream of the ~~extraction vessel~~ adsorbent media treatment vessel, the filtration system comprising a solvent vessel, a plurality of filter stages and the same plurality of transfer tubes wherein

each filter stage has:

- a thermally insulated cylindrical side wall;
- a lid that is removable from said wall;
- a replaceable, elongated filter cartridge;
- an inlet port in the lid located to introduce the solvent into the filter cartridge; and

- a base with an outlet port that drains the solvent from outside the filter cartridge;

the solvent vessel has:

- a thermally insulated side wall;
- an inlet port configured for introducing pressurized gas; and

an outlet tube having a first end located at a bottom region of the solvent vessel and a second end located outside the solvent vessel; and
the transfer tubes are each removably connected:

at an outlet end thereof to one of the inlet ports in one of the lids of the filter stages; and

at an inlet end thereof to either the second end of the outlet tube of the solvent vessel or the outlet port of another of said filter stages such that the solvent vessel and the filter stages are connected in series.

10. (Original) The system of claim 9, wherein the solvent vessel is a cryofreezer tank.